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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/775,256	02/11/2004	Soon-Phil Lee	P57025	9892
7590 Robert E. Bushnell Suite 300 1522 K Street, N.W. Washington, DC 20005		11/15/2007	EXAMINER VO, NGUYEN THANH	
			ART UNIT 2618	PAPER NUMBER
			MAIL DATE 11/15/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/775,256

Applicant(s)

LEE ET AL.

Examiner

Nguyen Vo

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 29 August 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 34-48 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 34-37 and 40-48 is/are rejected.
- 7) ☒ Claim(s) 38 and 39 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 11 February 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
 - 2) ☐ Certified copies of the priority documents have been received in Application No. _____.
 - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 34-37, 41-45 are rejected under 35 U.S.C. 102(b) as being anticipated by Mukerjee (US 6,405,041 B1, cited by examiner).

As to claim 34, Mukerjee discloses a system for operating wired and wireless phone services interconnectively, the system comprising a wired exchange 140 (see figure 2) connected to a public switched telephone network (PSTN) 110, for providing a wired phone service; a mobile gateway 165 connected to the wired exchange 140 for assigning virtual wired phone numbers to a plurality of mobile communication terminals (see column 4 lines 22-35; column 5 lines 3-22), for providing a public wired phone service to the mobile communication terminals by linking the virtual wired phone numbers with mobile identifier numbers (MINs) of the mobile communication terminals (see column 4 lines 22-35; column 5 lines 3-22), and for distributing a call to a wired terminal and then to a wireless terminal when it is determined that a phone number received from the wired exchange is a simultaneously called phone number (see column 5 lines 3-22, lines 41-63); and a private base station controller (pBSC) 161 connected to the mobile gateway 165 and a public land mobile network (PLMN) 130 for

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providing a mobile communication service to the mobile communication terminals through a private base station transceiver system (pBTS) 162.

As to claims 35, 42, see Mukerjee, column 5 lines 3-22, lines 41-63.

As to claims 36, 43, see Mukerjee, column 4 line 22 to column 5 line 22; column 5 lines 41-63.

As to claims 37, 44, see Mukerjee, column 5 lines 41-63.

As to claim 41, it is rejected for similar reasons as set forth in claim 34 above.

As to claim 45, see Mukerjee, column 7 lines 1-12; column 8 lines 15-25.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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5. Claims 40, 46-48 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mukerjee (US 6,405,041 B1, cited by examiner) in view of Glass (US 2002/0168968 A1, cited by examiner).

As to claims 40, 46, Mukerjee fails to disclose when receiving a request for an outgoing service from an internal mobile communication terminal, the mobile gateway changes caller identification (CID) to the virtual wired phone number assigned to the internal mobile communication terminal, and calls a called terminal via the PSTN. However, Glass discloses when receiving a request for an outgoing service from an internal mobile communication terminal 200, the mobile gateway 220 changes caller identification (CID) to the virtual wired phone number assigned to the internal mobile communication terminal, and calls a called terminal via the PSTN 100 (see paragraphs [0016], [0017]). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to provide the above teaching of Glass to Mukerjee, in order to allow the called party to see familiar telephone number (as suggested by Glass at paragraphs [0005] and [0006]).

As to claims 47-48, it should be noted that the PSTN 110 in Mukerjee must inherently include a billing equipment as claimed for billing telephone line communications, and mobile gateway 165 must inherently include a billing equipment as claimed for billing communications in PBX system.

Allowable Subject Matter

6. Claims 38-39 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

As to claim 38, the prior art of record fail to disclose or render obvious that the pBSC comprises a database for storing the virtual wired phone number assigned to each of the mobile communication terminals and the MIN of the mobile communication terminal corresponding to the virtual wired phone number.

As to claim 39, the prior art of record fail to disclose or render obvious that the mobile gateway assigns an extension subscriber line card (SLC) of a wired phone connected to a trunk thereof with the SLC thereof, and connects the assigned extension SLC to a plurality of wired terminals.

Response to Arguments

7. Applicant's arguments with respect to claims 34-48 have been considered but are moot in view of the new ground(s) of rejection.

Applicant argues that new claims 34-48 are allowable because the examiner indicated in the previous action that "the prior art of record fail to disclose or render obvious the combination of a wired exchange, a mobile gateway, a private base station controller as specified in claim 2". The examiner, however, disagrees. New independent claims 34 and 41 are not the same as claim 2. For that reason, they are not allowable and are rejected as set forth above.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nguyen Vo whose telephone number is (571) 272-7901. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban can be reached on (571) 272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Nguyen Vo
Primary Examiner
Art Unit 2618

Nguyen Vo
11-5-2007